

Table 3-5. Comparison of Alternative Impacts

Resource Issue	Proposed Action			Alternative 1			Alternative 2			Alternative 3			No Action		
	Impacts	Significant Impact	Mitigation	Impacts	Significant Impact	Mitigation	Impacts	Significant Impact	Mitigation	Impacts	Significant Impact	Mitigation	Impacts	Significant Impact	Mitigation
Air Quality Air emission standards	Short-term construction emissions exceed PM ₁₀ , NO _x , and VOC Air District thresholds	Yes	No ¹	Short-term construction emissions exceed PM ₁₀ , NO _x , and VOC Air District thresholds	Yes	No ¹	Short-term construction emissions exceed PM ₁₀ , NO _x , and VOC Air District thresholds	Yes	No ¹	Short-term construction emissions exceed PM ₁₀ , NO _x , and VOC Air District thresholds	Yes	No ¹	No additional air emission impacts	No	No
Biological Resources² Designated Critical Habitat, Special Status Wildlife and Plants, Sensitive Habitat Types (Vernal Pools and Riparian)	Short-term effects on critical habitat for the Valley elderberry longhorn beetle and winter-run and spring-run Chinook salmon from ground disturbance during construction activities.	No ³	No ⁴	Short-term effects on critical habitat for the Valley elderberry longhorn beetle and winter-run and spring-run Chinook salmon from ground disturbance during construction activities.	No ³	No ⁴	Short-term effects on critical habitat for the Valley elderberry longhorn beetle from ground disturbance during construction activities.	No ³	No ⁴	Short-term effects on critical habitat for the winter-run and spring-run Chinook salmon during construction activities.	No ³	No ⁴	Short-term effects on critical habitat from ground disturbance during maintenance activities.	No	No
	Removal of elderberry and subsequent effect to Valley elderberry longhorn beetle.	No ³	No ⁴	Removal of elderberry and subsequent effect to Valley elderberry longhorn beetle.	No ³	No ⁴	Removal of elderberry and subsequent effect to Valley elderberry longhorn beetle.	No ³	No ⁴	Removal of elderberry and subsequent effect to Valley elderberry longhorn beetle.	No ³	No ⁴	Removal of elderberry and subsequent effect to Valley elderberry longhorn beetle.	No	No
	Short-term erosion or vegetation removal may impact sensitive habitats.	No ³	No ⁵	Short-term erosion or vegetation removal may impact sensitive habitats.	No ³	No ⁵	Short-term erosion or vegetation removal may impact sensitive habitats.	No ³	No ⁵	Short-term erosion or vegetation removal may impact sensitive habitats.	No ³	No ⁵	Short-term erosion or vegetation removal may impact sensitive habitats.	No	No
Cultural Resources⁶ Prehistoric Cultural Resources, Historic Cultural Resources, and TCPs	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No	No
Electric and Magnetic Fields Corona effects, field effects, and health effects	No impacts, with implementation of design standards and adherence to EPMs	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No ³	No	No impacts, with implementation of design standards and adherence to EPMs.	No	No
Environmental Justice Disproportionate adverse health effects or reduced land values to minority or low-income communities	No disproportionate adverse impacts	No	No	No disproportionate adverse impacts	No	No	No disproportionate adverse impacts	No	No	No disproportionate adverse impacts	No	No	No disproportionate adverse impacts	No	No
Floodplains⁷ Obstruction of flood flows, decreased capacity to convey peak flows, and destabilization of soils.	100-year floodplain disturbance. Short-term effects on floodplain due to temporary construction and work sites. Long-term impacts due to concrete footings.	No ³	No	100-year floodplain disturbance: Short-term effects on floodplain due to temporary construction and work sites. Long-term impacts due to concrete footers.	No ³	No	100-year floodplain disturbance: Short-term effects on floodplain due to temporary construction and work sites. Long-term impacts due to concrete footers.	No ³	No	100-year floodplain disturbance: Short-term effects on floodplain due to temporary construction and work sites. Long-term impacts due to concrete footers.	No ³	No	Insignificant Short-term impacts	No	No